

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for ~~exchanging~~ routing a vehicle management information on an ad-hoc network ~~between~~from a source vehicles having an event by a nearby vehicle, the method comprising the steps of:

receiving a vehicle management information message including vehicle management information having at least one of vehicle position, direction, and speed information from ~~[[a]]the~~ source vehicle having ~~an~~the event, and a routing condition including a routing type for initiating one of a forward routing, a flooding routing and a broadcasting routing;

searching at least one of vehicle position, direction and speed information included in the received vehicle management information;

identifying whether its own vehicle management information of the source vehicle satisfies the searched at least one of vehicle position, direction and speed information;

displaying the event of the source vehicle on a monitor based on a result of the identifying step; and

routing the received vehicle management information message of the source vehicle to nearby vehicles after identifying the routing condition.

2-3. (Canceled)

4. (Previously Presented) The method as set forth in claim 1, further comprising the steps of:

including at least one of position and direction of the source vehicle in the vehicle management information; and

creating the vehicle management information using at least one of the vehicle driving information and vehicle safety information of the source vehicle.

5. (Currently Amended) The method as set forth in claim 4, further comprising the step of creating the vehicle management information including the vehicle safety information and the vehicle driving information of the nearby vehicles.

~~wherein vehicle safety information and vehicle driving information of the nearby vehicles are used to create the vehicle management information.~~

6-8. (Cancelled)

9. (Previously Presented) The method as set forth in claim 1, wherein the routing condition includes ID (Identification) and routing area information of a routing vehicle, and a message reception condition includes ID information of a destination vehicle.

10-13. (Cancelled)

14. (Currently Amended) An apparatus of a nearby vehicle for ~~exchanging~~ routing vehicle management information on an ad-hoc network ~~between~~ from a source vehicles having an event, the apparatus being included in ~~one of the nearby vehicle~~ vehicles and comprising:

~~a sensor for collecting vehicle driving information including at least one of vehicle position, direction, and speed information of a source vehicle and speed information of the source vehicle and including a Global Positioning System (GPS) receiver, a gyro sensor, and an electronic map; and~~

a receiver for receiving a vehicle management information message from the source vehicle, the vehicle management information message including a vehicle management information having at least one of vehicle position, direction, and speed information from the source vehicle, and a routing condition including a routing type for initiating one of a forward routing, a flood routing and a broadcast routing; and

a communicator for determining whether to route based on the received vehicle management information message, displaying a result if vehicle management information of the nearby vehicle satisfies the received vehicle management information of the source vehicle, and routing the received vehicle management information message to nearby vehicles by the routing condition.

~~receiving a vehicle management information message having a vehicle management information, including at least one of vehicle position, direction, and speed information from the source vehicles, a routing condition and event of the source vehicle, for searching at least one of~~

~~vehicle position, direction and speed information included in the received vehicle management information, for identifying whether the collected vehicle driving information satisfies the searched at least one of vehicle position, direction and speed information, for transmitting the event of the source vehicle to a controller for displaying the event of the source vehicle, if the collected vehicle driving information satisfies the searched at least one of vehicle position, direction and speed information, and for routing the received vehicle management information message to the nearby vehicles after identifying the routing condition.~~

15. (Original) The apparatus as set forth in claim 14, wherein the routing condition is contained in a header of the vehicle management information message, and the vehicle management information is contained in a main body of the vehicle management information message.

16-50 (Cancelled)

51. (New) The method as set forth in claim 1, further comprising the step of: updating the vehicle management information and the routing condition included in the received vehicle management information message before transmitting the vehicle management information message.

52. (New) The apparatus as set forth in claim 14, wherein the communicator updates the vehicle management information and the routing condition included in the received vehicle management information message before transmitting the vehicle management information message.

52. (New) The apparatus as set forth in claim 14, wherein the event of the source vehicle is one of warning of collisions possibility or forward traffic accidents.

54. (New) A method for transmitting a vehicle management information message on an ad-hoc network to nearby vehicles by a source vehicle, the method comprising the steps of:

collecting at least one of current position, direction, and speed information of the source vehicle with a Global Positioning System (GPS) receiver, a gyro sensor, and an electronic map;
collecting additional information of a driver's vehicle with an optional unit having a radar or a camera mounted on the source vehicle;
recognizing a traffic accident of the driver's vehicle based on the collected additional information;
generating a vehicle management information message including vehicle management information having at least one of the vehicle position, the direction, and the speed information from the source vehicle, and a routing condition including a routing type for initiating one of a forward routing, a flooding routing and a broadcasting routing; and
transmitting the vehicle management information message to the nearby vehicles.

55. (New) The method as set forth in claim 54, further comprising the steps of:
collecting various weather condition information with the weather sensor;
generating a warning message according to the various weather condition information;
and
transmitting the warning message to the nearby vehicles.

56. (New) An apparatus of a source vehicle for transmitting a vehicle management information message on an ad-hoc network to nearby vehicles, the apparatus comprising:
a sensor for collecting at least one of current position, direction, and speed information of the source vehicle with a Global Positioning System (GPS) receiver, a gyro sensor, and an electronic map, and collecting additional information of a driver's vehicle with an optional unit having a radar or a camera mounted on the source vehicle;
a controller for receiving the additional information, recognizing a traffic accident of the driver's vehicle based on the received additional information, and generating a vehicle management information message including vehicle management information having at least one of the vehicle position, the direction, and the speed information, and a routing condition including a routing type for initiating one of a forward routing, a flooding routing and a broadcasting routing; and

a communicator for transmitting the vehicle management information message to the nearby vehicles.

57. (New) The apparatus as set forth in claim 54, wherein the sensor collects various weather condition information with a weather sensor and sends the collected various weather condition information to the controller; and

the controller generates a warning message according to the various weather condition information and transmits the warning message to the nearby vehicles.